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THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Yasuaki SAKANISHI et al. : **Mail Stop: PCT**

Serial No. 10/583,994 : Attorney Docket No. 2006_0983A

Filed June 22, 2006

IMAGE TRANSMISSION SYSTEM AND
IMAGE TRANSMISSION METHOD
[Corresponding to PCT/JP2005/003987
Filed March 8, 2005]

**SUBMISSION OF ENGLISH VERSIONS OF INTERNATIONAL PRELIMINARY
REPORT ON PATENTABILITY AND WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith for consideration by the Examiner are:

- 1) An English version of the International Preliminary Report on Patentability; and
- 2) An English version of the Written Opinion of the International Searching

Authority.

Respectfully submitted,

Yasuaki SAKANISHI et al.

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November 2, 2006

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)
(PCT Rules 44bis.3(c) and 72.2)

To:

NII, Hiromori
c/o NII Patent Firm
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06.10.11

Date of mailing (day/month/year)
28 September 2006 (28.09.2006)

Applicant's or agent's file reference
P37952-P0

IMPORTANT NOTIFICATION

International application No.
PCT/JP2005/003987

International filing date (day/month/year)
08 March 2005 (08.03.2005)

Applicant

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. et al

1. Transmittal of the translation to the applicant.

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter I).

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

None

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Authorized officer

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PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference P37952-PO	FOR FURTHER ACTION		See item 4 below
International application No. PCT/JP2005/003987	International filing date (<i>day/month/year</i>) 08 March 2005 (08.03.2005)	Priority date (<i>day/month/year</i>) 10 March 2004 (10.03.2004)	
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237			
Applicant MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.			

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).

2. This REPORT consists of a total of 10 sheets, including this cover sheet.

In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

<input checked="" type="checkbox"/>	Box No. I	Basis of the report
<input type="checkbox"/>	Box No. II	Priority
<input type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/>	Box No. IV	Lack of unity of invention
<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input type="checkbox"/>	Box No. VI	Certain documents cited
<input type="checkbox"/>	Box No. VII	Certain defects in the international application
<input checked="" type="checkbox"/>	Box No. VIII	Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).

Date of issuance of this report 19 September 2006 (19.09.2006)

Authorized officer

Masashi Honda

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The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

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PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

PCT
TRANSLATION

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

(PCT Rule 43bis.1)

Date of mailing (day/month/year)		28.06.2005
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Applicant's or agent's file reference P37952-P0	FOR FURTHER ACTION See paragraph 2 below	
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International application No. PCT/JP2005/003987	International filing date (day/month/year) 08.03.2005	Priority date (day/month/year) 10.03.2004
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International Patent Classification (IPC) or both national classification and IPC
G09G5/00

Applicant MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.
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1. This opinion contains indications relating to the following items:

<input checked="" type="checkbox"/>	Box No. I	Basis of the opinion
<input type="checkbox"/>	Box No. II	Priority
<input type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/>	Box No. IV	Lack of unity of invention
<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input type="checkbox"/>	Box No. VI	Certain documents cited
<input type="checkbox"/>	Box No. VII	Certain defects in the international application
<input checked="" type="checkbox"/>	Box No. VIII	Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/JP	Authorized officer
Facsimile No.	Telephone No.

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/003987

Box No. I

Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
 This opinion has been established on the basis of a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material
 a sequence listing
 table(s) related to the sequence listing
 - b. format of material
 in written format
 in computer readable form
 - c. time of filing/furnishing
 contained in the international application as filed.
 filed together with the international application in computer readable form.
 furnished subsequently to this Authority for the purposes of search.
3. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2005/003987

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability;
citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	4-9, 11-18, 20-21	YES
	Claims	1-3, 10, 19, 22-26	NO
Inventive step (IS)	Claims	5-6, 9, 11, 15-17, 20	YES
	Claims	1-4, 7-8, 10, 12-14, 18-19, 21-26	NO
Industrial applicability (IA)	Claims	1-26	YES
	Claims		NO

2. Citations and explanations:

Document 1: JP 2002-32069 A (Canon Inc.), 31 January 2002

Document 2: Miho Iio, Yoshihiro Koshikawa, "'Multimedia' jouhou haishin/hyouji 'system' 'Brood Messenger IV'", Oki Technical Review, Vol. 69, No. 3, 1 July 2002, pp. 68-71

Document 3: JP 10-198326 A (Canon Inc.) 31 July, 1998

The inventions set forth in claims 1 and 22-26 are not novel and do not involve an inventive step in the light of document 1, cited in the international search report. Document 1 discloses simultaneous multi-display of images output from a plurality of video signal sources (1a) and (1b), in a display device (30) such as a back projection TV or forward projecting projector (see paragraphs [0004], [0023] and [0063] and fig. 1-2 and 4), and mentions the fact that audiovisual signal transmission components (9a, 9b) in the aforementioned video signal sources (1a, 1b) convert the video signals to signals in a transmission format such as TMDS or IEEE 1394 (see paragraph [0072]), and that an audiovisual signal reception component (32) in the aforementioned display device (30) decodes the signals received in an

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Box No. V **Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

aforementioned transmission format such as TMDS or IEEE 1394 (see paragraph [0076]).

And the conversion of video signals in the audio-visual signal transmission components (9a, 9b) above can be regarded as adjustment of video signal transmission in a transmission image adjustment means, and the decoding of received signals in the audiovisual signal reception component (32) above can be regarded as image readjustment in an output image adjustment means.

Document 1 (paragraphs [0187]-[0188]) also indicates that the functions of the video signal sources (1a, 1b) above and display device (30) above are governed by a computer program executed by a computer.

The inventions set forth in claims 2-3 are not novel and do not involve an inventive step in the light of document 1. Document 1 discloses capturing video signal attributes and automatically compiling image conversion information, so that if, having been watching four programmes on a split screen, one programme is switched to HDTV mode, it is possible to watch this programme only on the entire screen (see especially paragraphs [0098]-[0099]).

The inventions set forth in claims 4 does not involve an inventive step in the light of document 1. A person skilled in the art could easily switch from a single display on one screen to four displays on a split screen in the invention disclosed in document 1.

The inventions set forth in claims 7-8 do not involve an inventive step in the light of document 1. A

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Box No. V **Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

person skilled in the art could easily use known index mode display in the invention disclosed in document 1.

The inventions set forth in claims 12-14 do not involve an inventive step in the light of document 1. Document 1 mentions that communication components (10a, 10 b) in the video signal sources ((1a, 1b) above receive EDID information from the display unit (30) above (see paragraph [0070]), that there are graphics components (6a, 6b) in the video signal sources ((1a, 1b) above, with output in accordance with the resolution of the display (see paragraph [0069])), and that a memory control component (33) in the display device (30) above converts the resolution of the multiple input video signals (see paragraph [0077]).

The invention set forth in claim 18 does not involve an inventive step in the light of document 1. Document 1 mentions that the audiovisual signal transmission components (9a, 9b) above have the capacity to convert the video signals to compressed signals such as MPEG signals or JPEG signals (see paragraph [0072]), and that the audiovisual signal reception component (32) above can decode compressed signals received (see paragraph [0076]).

Document 1 does not specifically mention adding information relating the compression above to the compressed images in this connection; however, adding information relating to the compression format to compressed images is merely well known art (such as adding information relating to the compression format above in the extension to the file name, for example).

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Box No. V **Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

The invention set forth in claim 21 does not involve an inventive step in the light of document 1 and document 2, cited in the international search report. Document 2 discloses "providing the TV remote control with keyboard emulation capability and raising ease of operation of client terminals." (see page 70, right column, lines 14-15).

The inventions set forth in claims 1, 10, 19 and 22-26 do not involve an inventive step in the light of document 3, cited in the international search report.

Document 3 discloses split display on a video bulletin board (16) whereby different display jobs transmitted by a plurality of host computers are displayed simultaneously on a split screen (see paragraph [0066]), and mentions that the host computers above add to the display jobs above control information (see paragraph [0050]), which includes a designation of the position in which the page in question is to be displayed (see paragraph [0054]) and a designation of the display priority of the page in question (see paragraph [0056]), and the video bulletin board (16) above automatically splits the display screen and displays each page in accordance with the aforementioned control information (see [0064]-[0065]), and that the large screen display (1) (see paragraph [0028]) constituting the aforementioned video bulletin board (16) can be constituted by a liquid crystal projector (see paragraph [0041]).

And the addition of the aforementioned control information in the aforementioned host computers can be regarded as adjustment relating to projection in a

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Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability;
citations and explanations supporting such statement

transmission image adjustment means, and the aforementioned splitting of the display screen in the aforementioned video bulletin board (16) in accordance with the aforementioned control information can be regarded as readjustment of the image in an output image adjustment means.

Document 3 (paragraphs [0116]-[0119]) also indicates that the functions of the aforementioned host computers and the aforementioned video bulletin board (16) are governed by a computer program executed by a computer.

The invention set forth in claim 2 is not novel and does not involve an inventive step in the light of document 3. Document 3 discloses the inclusion of a designation of full screen display of the page in question as an aforementioned positional designation (see paragraph [0054])

The inventions set forth in claims 3-4 do not involve an inventive step in the light of document 3. Document 3 does not mention aforementioned positional designations switching from split display to full screen display or switching from full screen display to split display; however, a person skilled in the art could easily in the invention in document 3 send a display job with altered aforementioned positional designations to a new aforementioned video bulletin board (16) and display it on the aforementioned video bulletin board (16) in accordance with the altered aforementioned positional designations.

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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability;
citations and explanations supporting such statement

The inventions set forth in claims 5-6, 9, 11, 15-17 and 20 are not disclosed in any of the documents cited in the international search report, and are not obvious to a person skilled in the art.

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Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

- a. The subject matter claimed in claim 5 is not fully supported by the description, because it is unclear whether there is any mention thereof in the description.

- b. Although it is evident from the statement in claim 20 that "the aforementioned transmission image adjustment means predicts the projection screen in the aforementioned image projection device" that the "transmission image adjustment means" in the projection device "predicts the projection screen", paragraph [0056] and [0109] state that the "correction assessing component (616) in the image projection device (projector (600)) produces display predicting information". Therefore, the above statement in claim 20 does not accord with the above statements in the description.